FORMAX®

FD 415
Cut Sheet Burster

OPERATOR / MAINTENANCE MANUAL
FIRST EDITION

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Preface

Thank you very much for your purchase of our CUT SHEET BURSTER

This machine is one of our products developed by our experience and technology in the office apparatuses for a long time.

Please read this operation manual sufficiently and understand how touse this machine before operating the machine.

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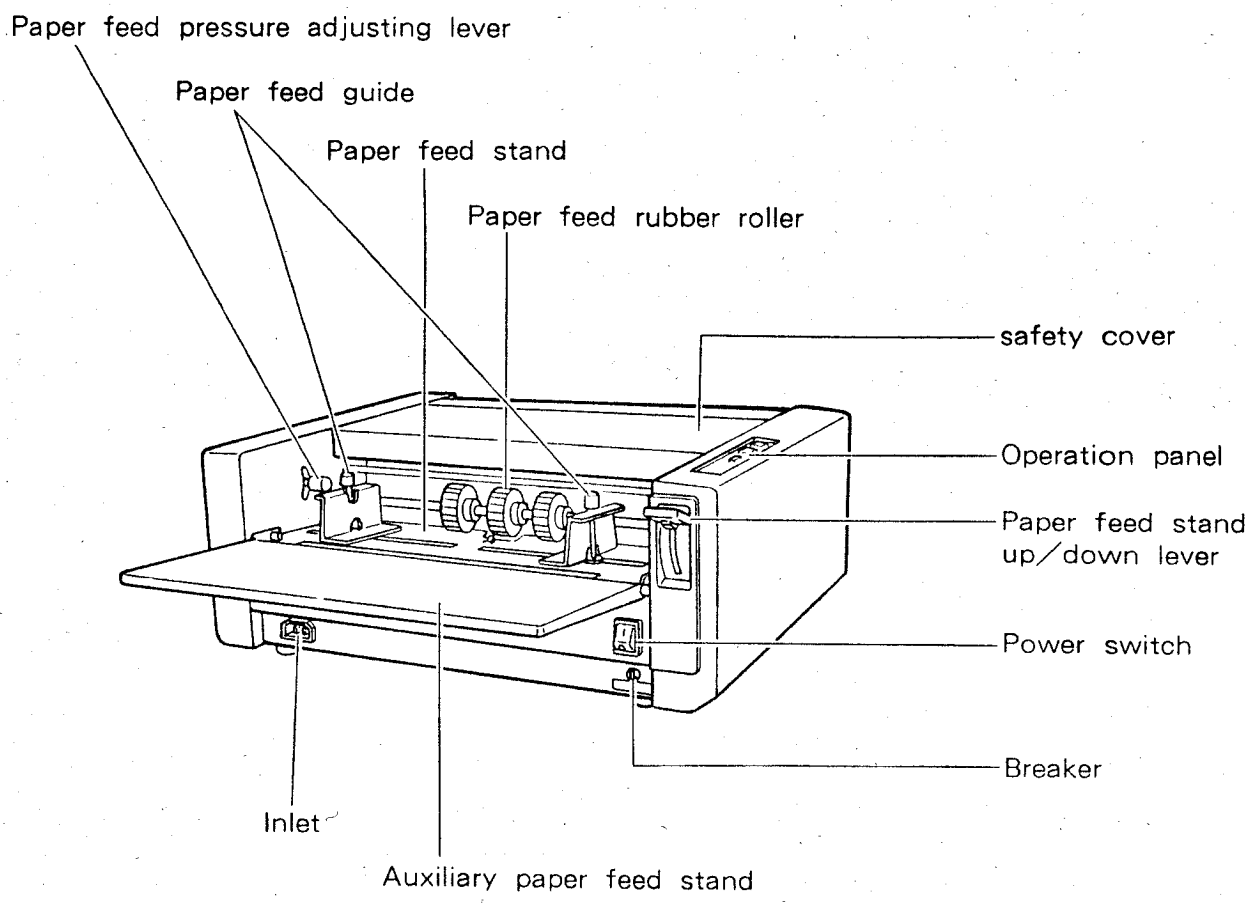
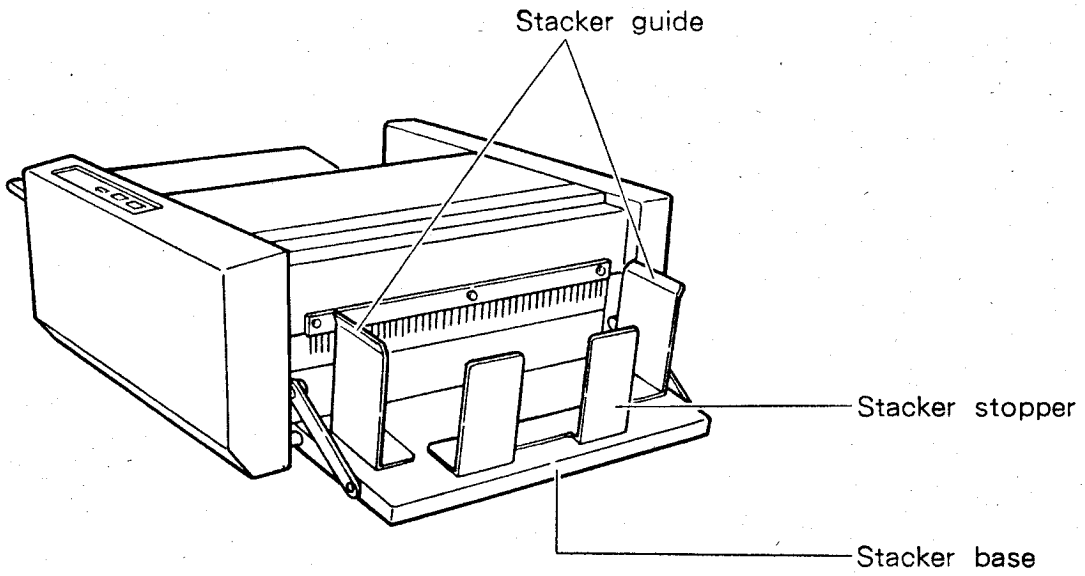
1. Name of each part





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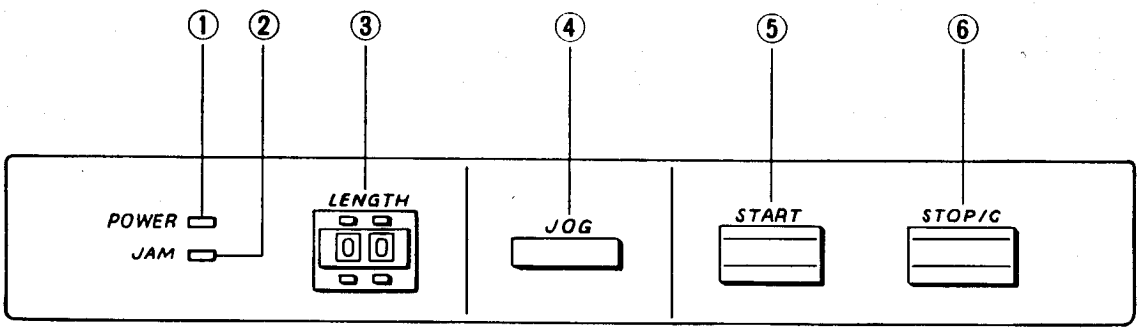
2. Name of operation panel part and function



No.	Name	Function
①	Power Indicator	Lights up when power is on.
②	Jam Indicator	Lights up if paper is jammed or is not cut in the machine. When this indicator lights up, the machine will stop operation.
③	Length Switch	Use to set a paper cut size.
④	Jog Button	Press to run the machine at a low speed. Even if the safety cover is opened, the machine will run slowly during which this button is depressed.
⑤	Start Button	Press to start operation. This button is inoperative when the jam indicator is lit.
⑥	Stop/C Button	Press to stop operation. When this button is pressed while the jam indicator is lit, the indicator will be reset.

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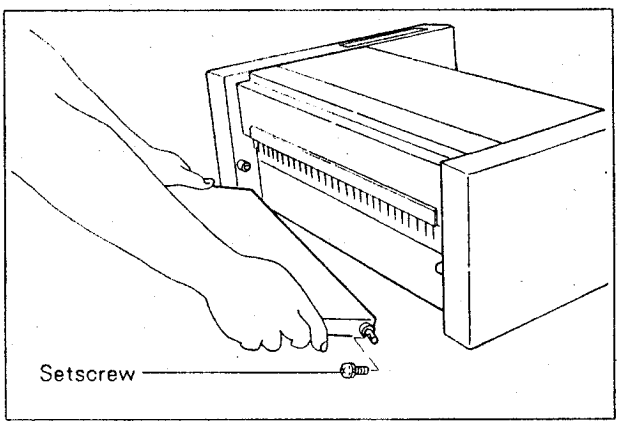
3. Operation procedure

3-1 Preparation before operation

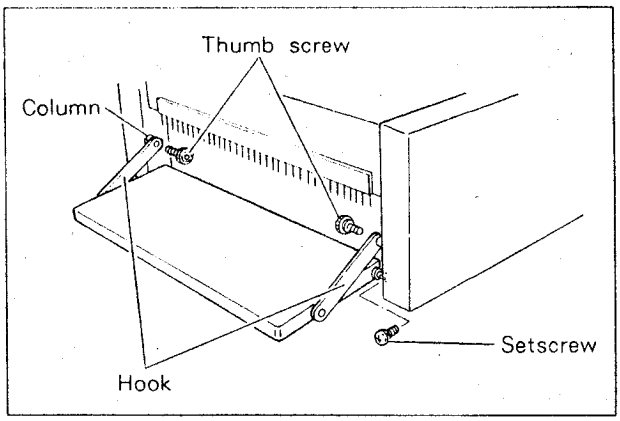
1 Installation of stacker base

Remove a setscrew from the right side of the stacker base, and insert the stand axis into the holes of the machine frame on the both side.



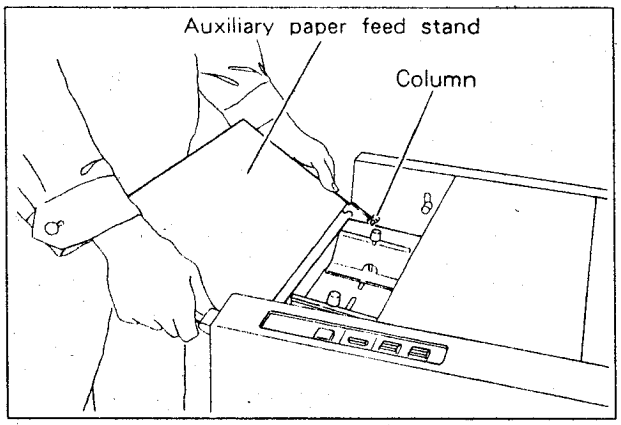
Attach the right and left hooks to the columns, and fit thumb screws into the columns.

Fit the setscrew into the axis.



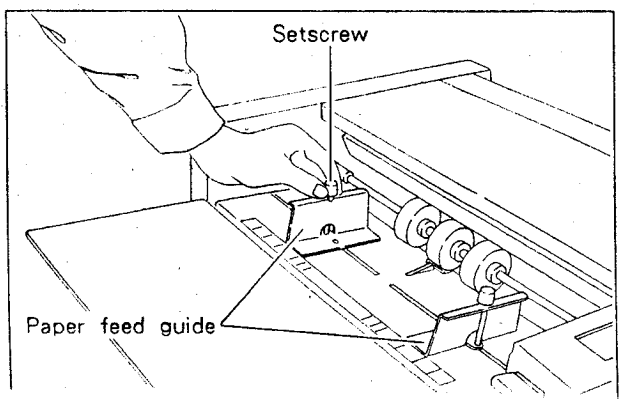
2 Installation of auxiliary paper feed stand

Insert the tip of the auxiliary paper feed stand into the right and left columns of the paper feed part of the main body. Then, set the auxiliary paper feed standdownwards.



3 Preparation of paper feed stand

Adjust the paper feed guides at both sides to the scale for the paper size.



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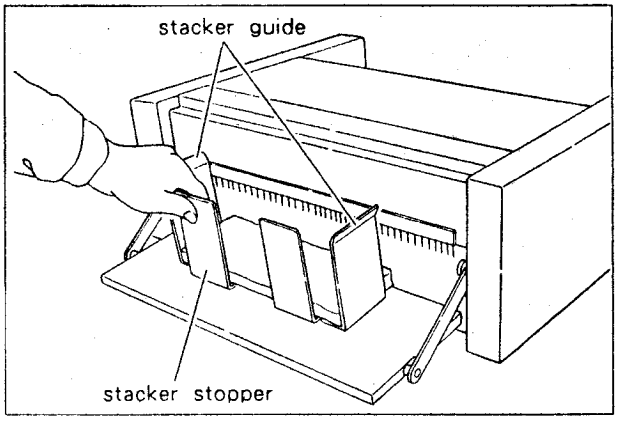
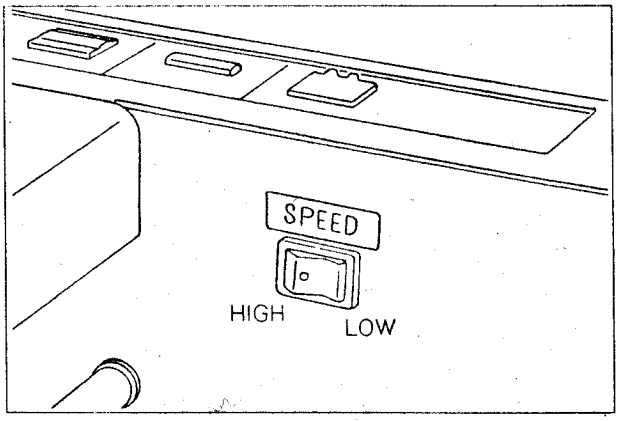
4 Preparation of stacker base

Set the stacker stopper and the stacker guide wider than the cut paper about 3cm.



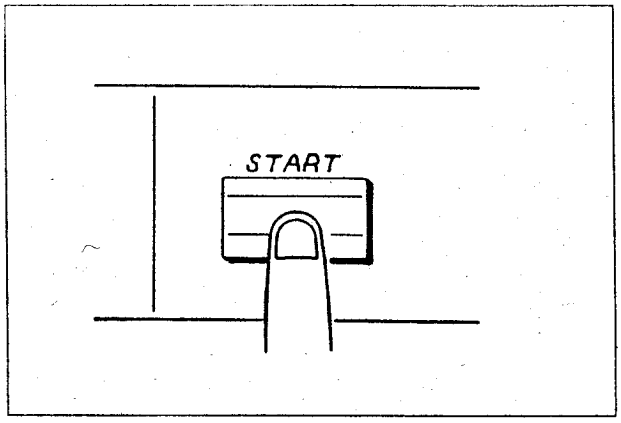
5 Speed selection

Set the speed select switch to LOW when the cut size is less than 5", and to HIGH when the cut size is more than 5".



6 Start of operation

Touch the start button and start the operation.



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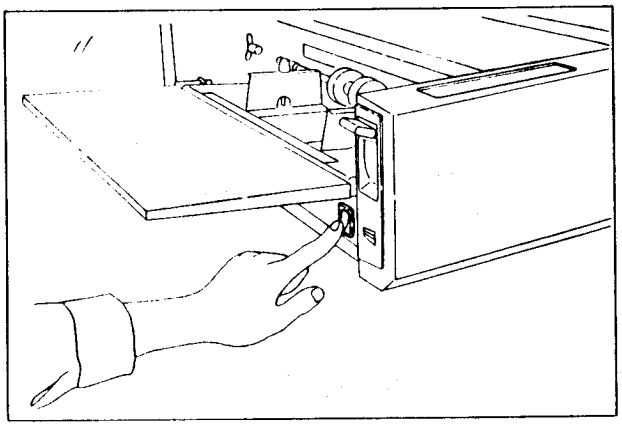
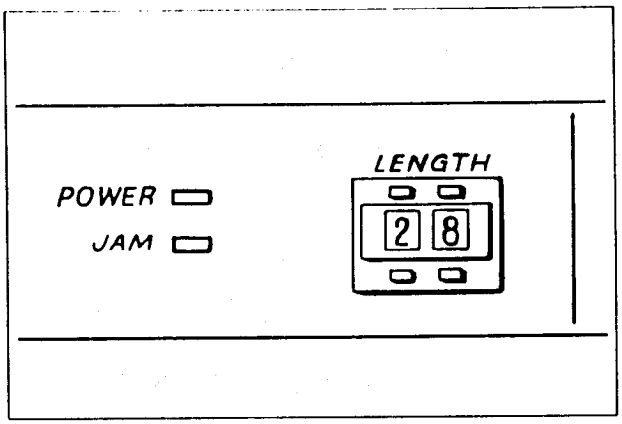
3-2 Start of operation

1 Turn on the power supply switch.
Insert the attached power supply cord into the inlet of the main body.Insert the plug of the power supply cord into the electric outlet.
Turn on the power supply switch.Touch the [|] side of the switch.



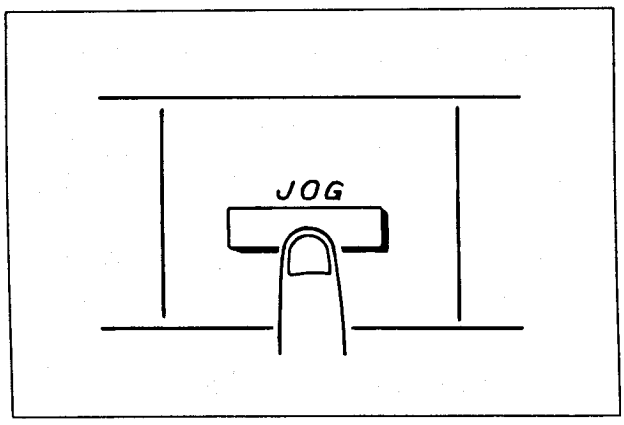
2 Set the length switch according to the paper cut size.
The switch allows adjusting the paper cut size in 0.1".



Example:

PAPER SIZE	NUMBER OF CUTS	FINISHED SIZE	LENGTH SWITCH
8 1/2" × 11"	4 cuts	8 1/2" × 2 3/4"	2 8
8 1/2" × 11"	3 cuts	8 1/2" × 3 2/3"	3 7
8 1/2" × 11"	2 cuts	8 1/2" × 5 1/2"	5 5
8 1/2" × 14"	2 cuts	8 1/2" × 7"	7 0

3 Press the jog button to check for proper cutting.
Paper will be fed at a low speed during which this button is depressed.



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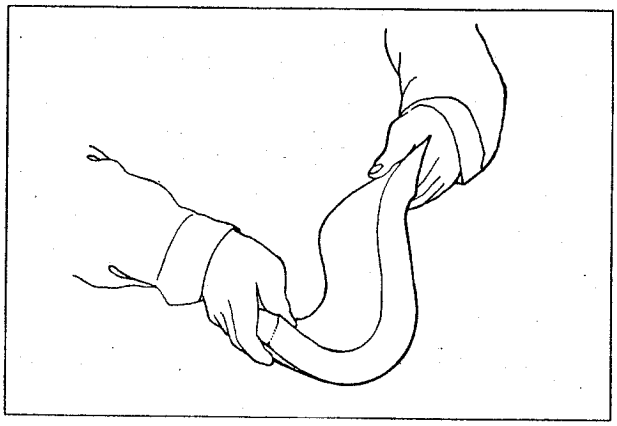
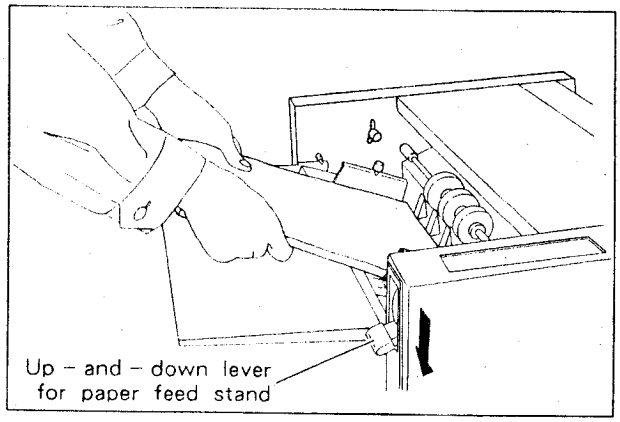
4 Riffle loosen up paper to prevent paper jams or misfeeds.



5 Preparation of paper

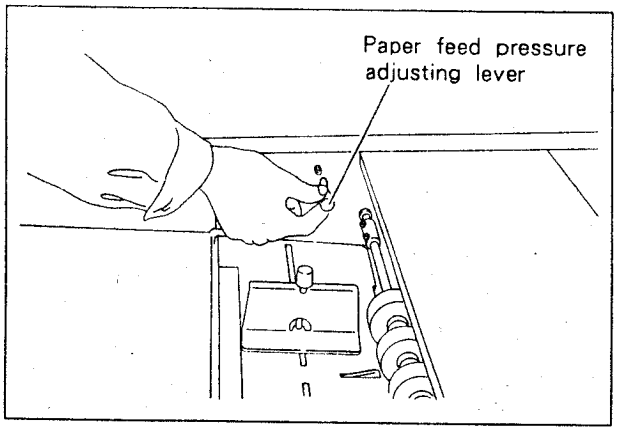
Lower the up – and – down lever for the paper feed stand and put the paper to be cut on the paper feed stand.

Readjust the paper feed guides at both sides without pressing the paper to be cut.Then, tighten the setscrew.

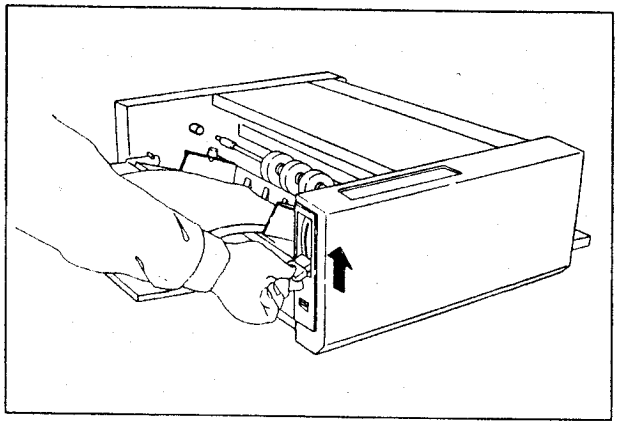


6 Adjustment of paper feed pressure

Adjust the paper feed pressure to the thickness of paper. Usually it is set to the "NORMAL" position.



7 Raise the up – and – down lever for the paper feed stand.



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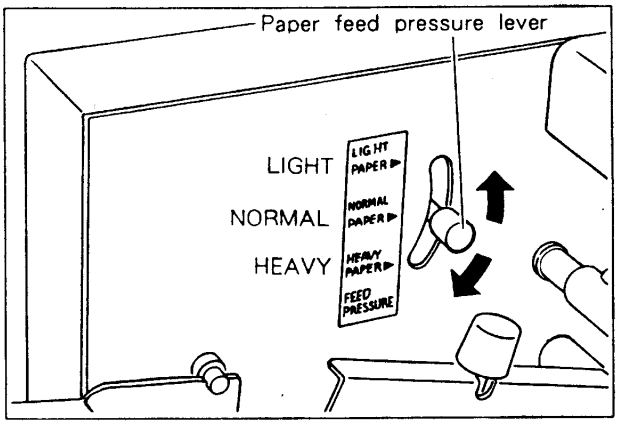
4. Advice corner

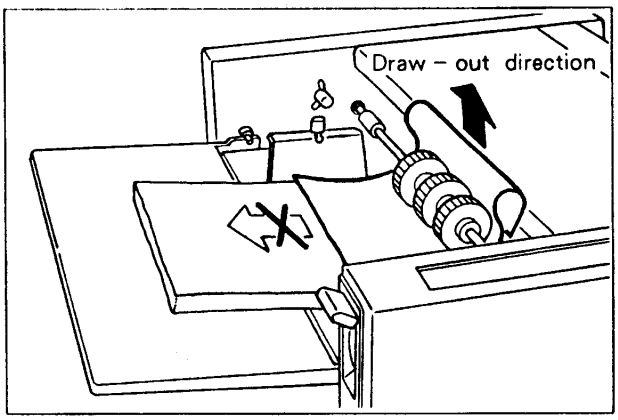
4-1 Paper Misfeeds

When more than one sheet of paper is fed at a time,
set the paper feed pressure lever to the "LIGHT" position.
When no paper is fed, set the paper feed pressure lever to the "HEAVY" position.
Paper feed pressure lever

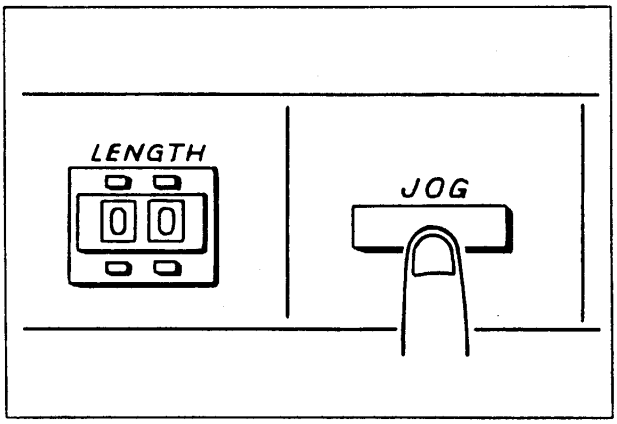


4-2 Paper jams

Paper feed section
[ACTION]
Remove jammed paper.



Paper cut section
When paper is jammed between rubber rollers, proceed as follows :
Set the length switch to [00], and then press the jog button to discharge jammed paper.



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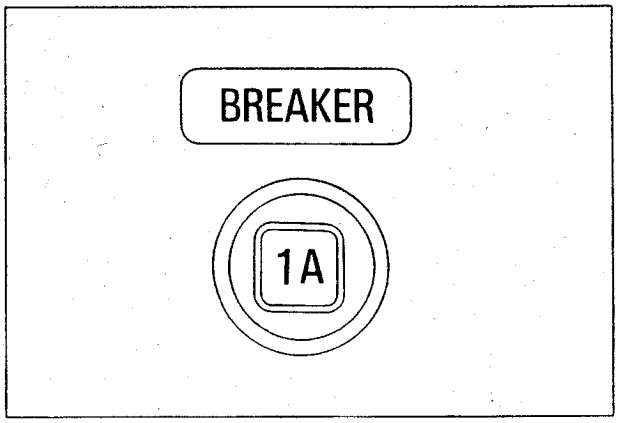
4-3 When breaker activated and machine stopped :

When the paper jams or when an excessive load is placed on the machine, the breaker functions and the machine stops to assure safety, so take the following measures.

- Press the breaker button after examining the cause thoroughly and confirming safety.
- As the power supply is turned ON again, the operation can resumed.



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5. Specification and accessories

1. Specification

Paper size :	max. 11" × 17" min. 4" × 5"
Paper weight (g/m2) :	64 - 157
Cut width :	2.5" ~ 9.9" (Adjustable in 0.1")
Cutting method :	Burst
Paper feeding :	Via rubber ring
Feed pressure :	Adjustable (3 positions according to thin, normal, or thick paper)
Tray capacity :	500 sheets for 64 g/㎡ high - quality paper
Cutting speed :	HIGH : 140 sheets/min LOW : 90 sheets : 90 sheets/min (at sheet with 11")
Stacker :	Drop type
Available functions :	am detection and automatic stop, Monitor display, Automatic stop at last sheet . Safety cover with interlocking mechanism
Dimensions (mm) :	Machine body : 403 (W) × 482 (D) × 222 (H) Paper receiving stand attached : + 146 (D) Paper feed stand attached : + 185 (D)
Weight :	25kg
Power source :	120V AC, 60Hz
Power consumption :	63W (0.75A)
Operating conditions :	Temperature : 5 ~ 40 Rel. humidity : 20 ~ 80%, no condensation

2. Accessories

Electric power supply cord	1	Paper receiving guide	2
Auxiliary paper feed plate	1	Paper receiving stopper	1
Paper receiving stand	1	Operation manual	1

Note) The specification and the described items subject to change without notice.

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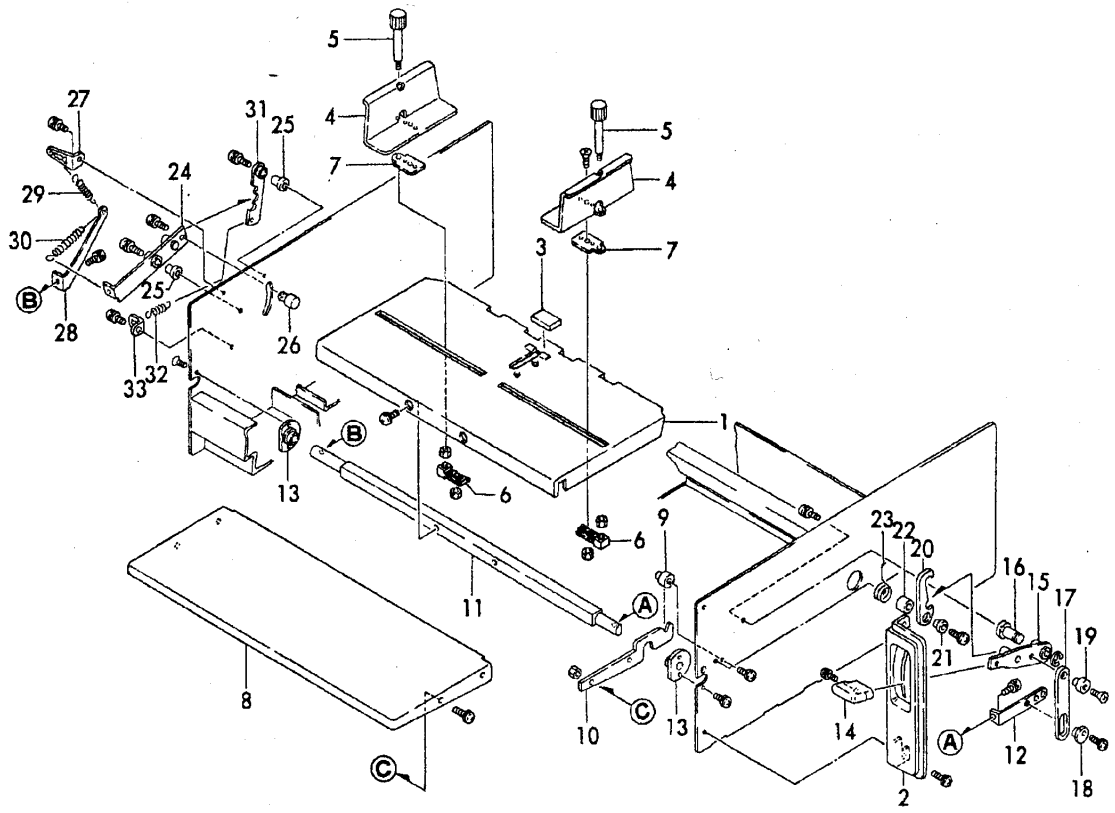
1. I Feeding Mechanism I



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 – 10020	給紙板 unit	Feeding plate unit	1	
2	G6 – 10720	パネル	Panel	1	
3	26 – 22520	サバキ板	Separator plate	1	
4	G6 – 10070	給紙ガイド	Feed guide	2	
5	72 – 22160	セットネジ	Set screw	2	
6	26 – 21320	ガイド板	Duide plate	2	
7	90 – 27181	スライド板	Slide plate	2	
8	J1 – 10170	給紙補助板	Auxiliary feed plate	1	
9	G6 – 10180	柱	Pillar	2	
10	G6 – 10191	フック	Hook	2	
11	C9 – 22251	支点軸	Fulcrum shaft	1	
12	C9 – 22260	レバー	Lever	1	
13	G6 – 10230	軸受	Bearing	2	
14	G6 – 10260	ツマミ	Knob	1	
15	72 – 22310	給紙レバー unit	Feed lever unit	1	
16	72 – 22360	軸	Shaft	1	
17	C9 – 22360	リンク	Link	1	
18	C9 – 22370	偏心軸	Eccentric shaft	1	
19	Y4 – 08022	Y	Y collar	1	
20	72 – 22420	規制レバー	Lever	1	
21	Z4 – 08022	Z	Z collar	1	
22	72 – 22460	柱	Pillar	1	
23	72 – 22470	バネ To	Spring To	1	
24	G6 – 10481	レバー unit	Lever unit	1	
25	G6 – 10530	軸	Shaft	2	
26	G6 – 10540	ツマミ	Knob	1	
27	52 – 14380	アングル (大)	Angle (Large)	1	

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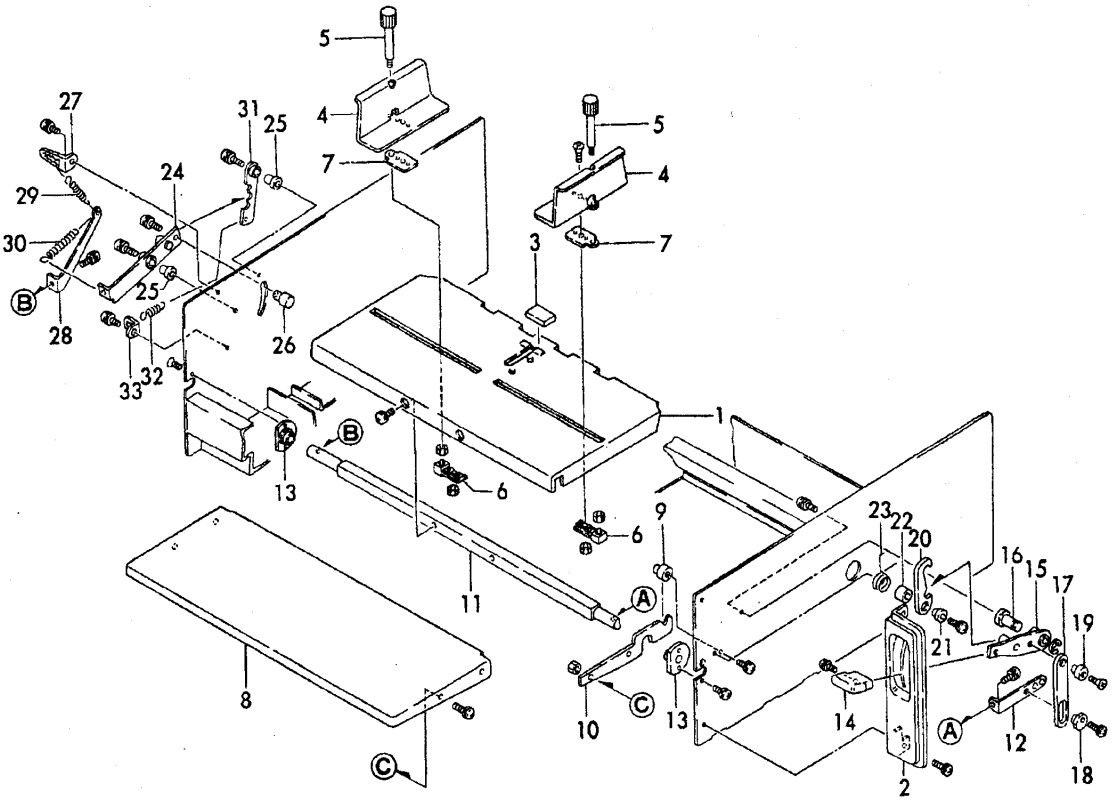
1. I Feeding Mechanism I



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
28	C9 – 22631	レバー	Lever	1	
29	G6 – 10590	バネT	Spring T	1	
30	C9 – 22651	バネT	Spring T	1	
31	G6 – 10631	板 unit	Plate unit	1	
32	F2 – 10380	バネT	Spring T	1	
33	52 – 61290	小アングル	Angle (small)	1	

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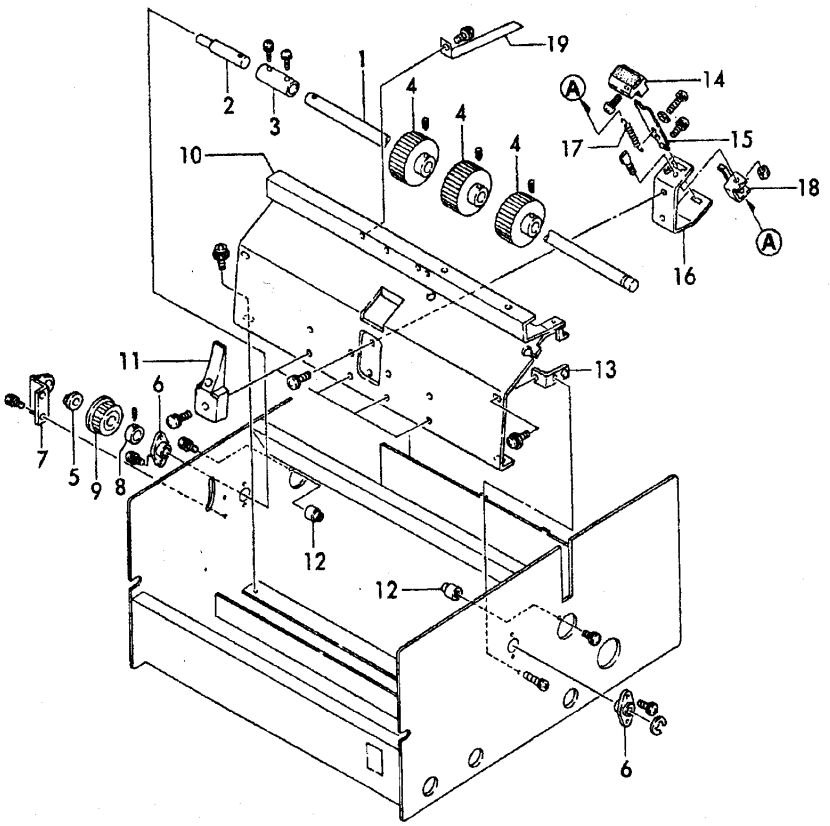
2. II Feeding Mechanism II



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1－11020	給紙軸	Feed shaft	1	
2	G6－11051	軸	Shaft	1	
3	G6－11060	ジョイント	Joint	1	
4	26－23350	ゴム輪 unit	Rubber ring unit	3	
5	72－25310	軸受	Bearing	1	
6	A12－51051	軸受	Bearing	2	
7	G6－11131	板	Plate	1	
8	72－23291	カラー	Collar	1	
9	J1－11170	タイミングプーリ unit	Timing pulley unit	1	
10	J1－11220	給紙口 unit	Feed inlet unit	1	
11	72－23850	リブ	Rib	4	
12	72－23630	段ネジ	Step screw	2	
13	26－23731	アングル	Angle	2	
14	C9－23660	サバキ台 unit	Separator base unit	1	
15	72－23710	サバキレバー	Separator lever	1	
16	C9－23712	サバキフレーム	Separator frame	1	
17	72－23760	バネT	Spring T	1	
18	72－23770	吊上板	Holding plate	1	
19	J1－11260	ルミラー	Lumirror	2	

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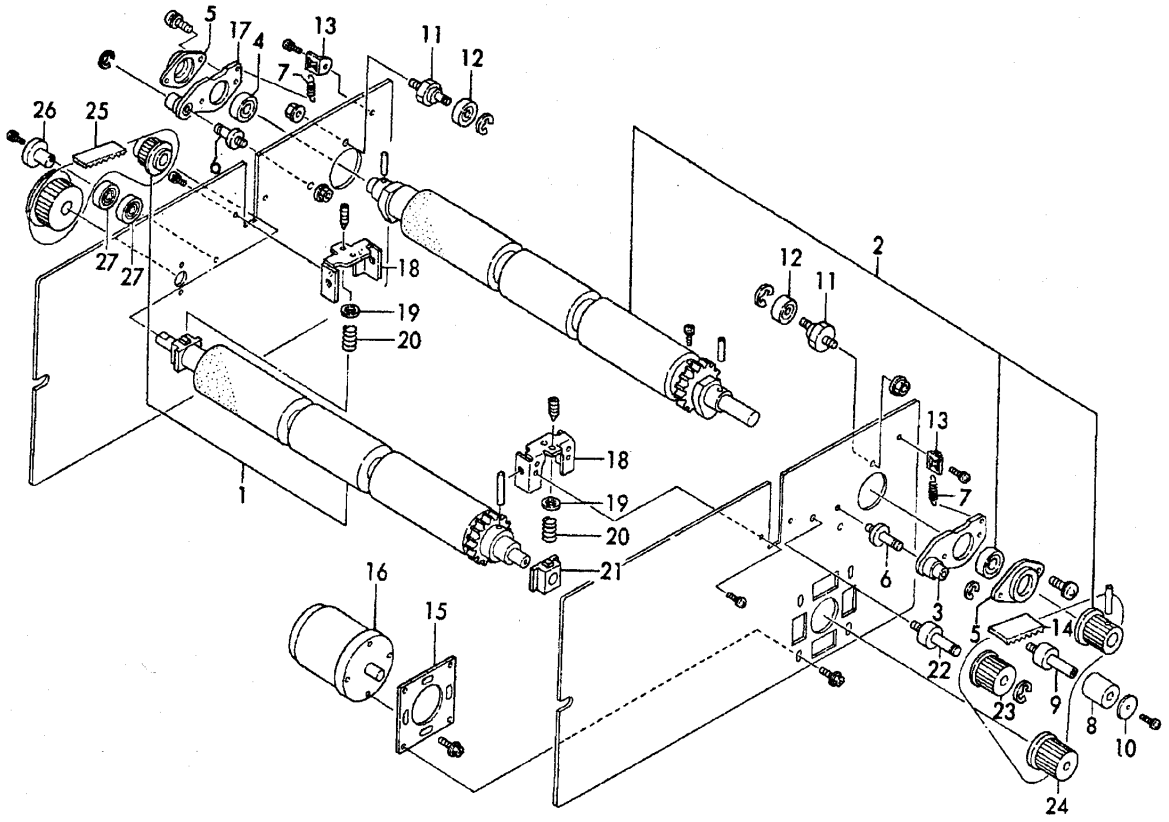
3. I Burst Roller Section I



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 – 20220	ロール Assy 3	Roll assy 3	1	
2	J1 – 20330	ロール Assy 4	Roll assy 4	1	
3	F2 – 10260	レバー unit R	Lever unit R	1	
4		ベアリング 6901ZZ	Bearing 6901zz	1	
5	72 – 11100	フタ	Lid	2	
6	F2 – 10370	軸	Shaft	2	
7	F2 – 10380	バネT	Spring T	2	
8		ニードルベアリング	Needle bearing	1	
9	F2 – 10461	軸	Shaft	1	
10	F2 – 10470	板	Plate	1	
11	F2 – 10491	偏心軸	Eccentric shaft	2	
12	F2 – 10510	ゴムベアリング	Rubber bearing	2	
13	52 – 61290	小アングル	Angle	2	
14		タイミングベルト B100S5M255	Timing belt	1	
15	J1 – 21150	板	Plate	1	
16	H5 – X1010	ロータリーソレノイド	Rotary solenoid	1	
17	F2 – 10250	レバー unit L	Lever unit L	1	
18	F4 – 10160	ブラケット	Bracket	2	
19	D1 – 10170	座金	Washer	2	
20	C3 – 10700	バネC	Spring C	2	
21	90 – 12130	軸受	Bearing	2	
22	J1 – 21170	軸	Shaft	1	
23	J1 – 21190	テンション unit	Tension unit	1	
24	J1 – 21240	プーリー unit	Pulley unit	1	
25		タイミングベルト B100S5M400	Timing belt	1	
26	F2 – 40110	偏心軸	Eccentric shaft	1	
27		ベアリング 6900ZZ	Bearing	2	

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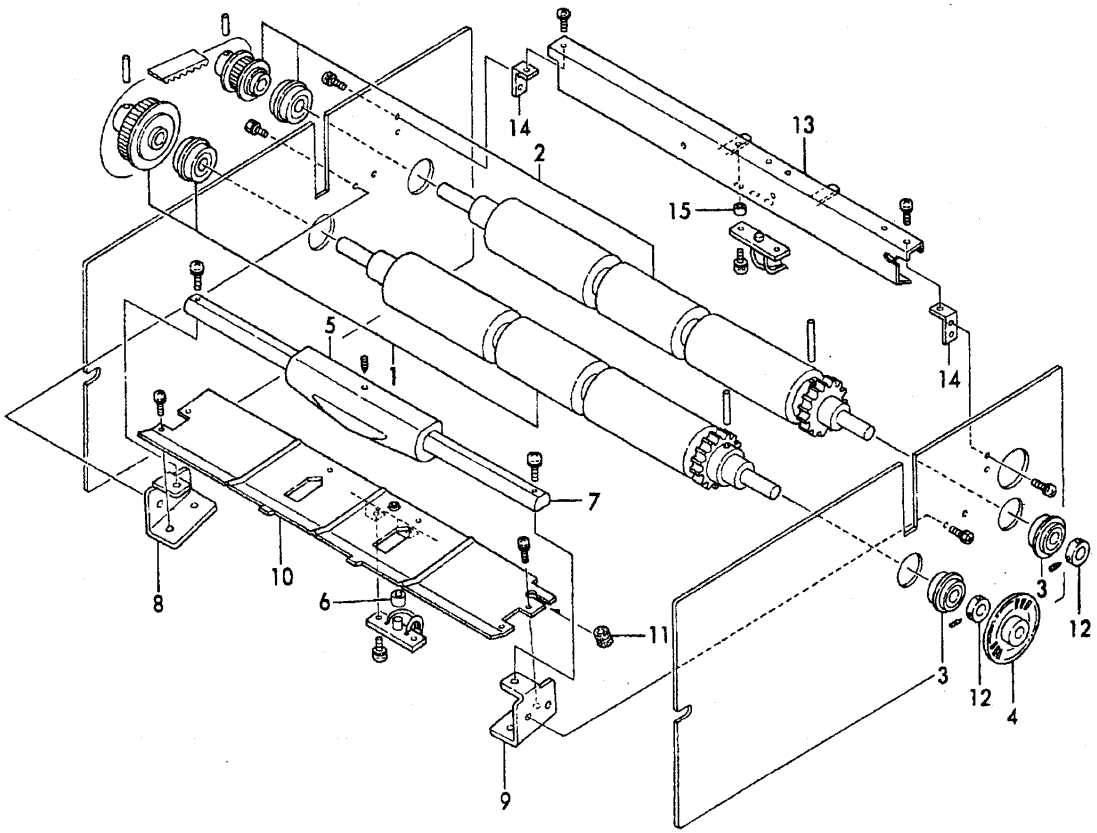
4. Ⅱ Burst Roller Section Ⅱ



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 - 20020	ロール Assy 1	Roll assy 1	1	
2	J1 - 20120	ロール Assy 2	Roll assy 2	1	
3		ベアリング 6000ZZNR	Bearing 6000ZZNR	2	
4	C7 - 11610	エンコーダ Assy	Encoder assy	1	
5	F2 - 10591	バーストロール A	Burst roll A	1	
6	F2 - 11250	スポンジ	Sponge	1	
7	J1 - 20630	軸	Shaft	1	
8	C7 - 12691	止め板 L	Plate L	1	
9	C7 - 12701	止め板 R	Plate R	1	
10	J1 - 21080	プレート unit	Plate unit	1	
11		ブッシング G - 102	Bushing G - 102	1	
12	72 - 23291	カラー	Collar	2	
13	J1 - 50301	出口板	Exit plate	1	
14	26 - 23450	アングル	Angle	2	
15		プラスチックサポート PS303	Plastic support	2	

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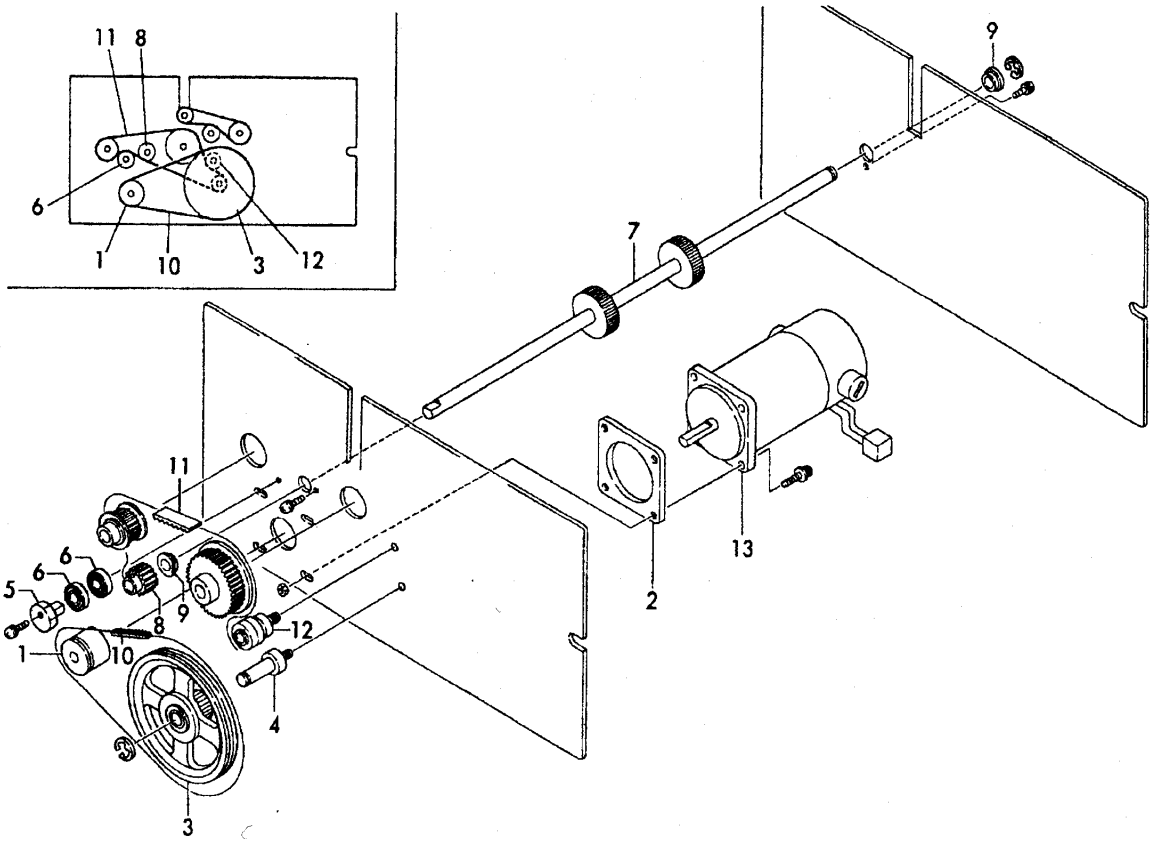
5. Driving Mechanism



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	H4 − 40030	モータープーリ	Motor pulley	1	
2	J1 − 30030	モーター板	Motor plate	1	
3	J1 − 30050	中間プーリ unit	Pulley unit	1	
4	G4 − 40090	軸	Shaft	1	
5	F2 − 40110	偏心軸	Eccentric shaft	1	
6		ベアリング 6900ZZ	Bearing	2	
7	J1 − 30190	排出ロール unit	Exhaust roll unit	1	
8	J1 − 20180	タイミングプーリ	Timing pulley	1	
9	C6 − 56270	軸受	Bearing	2	
10		ポリマックスベルト 5M462	Belt	1	
11		タイミングベルト B100S5M435	Timing belt	1	
12	H4 − 40200	テンション unit	Tension unit	1	
13	J1 − X1010	DC モーター	DC motor	1	

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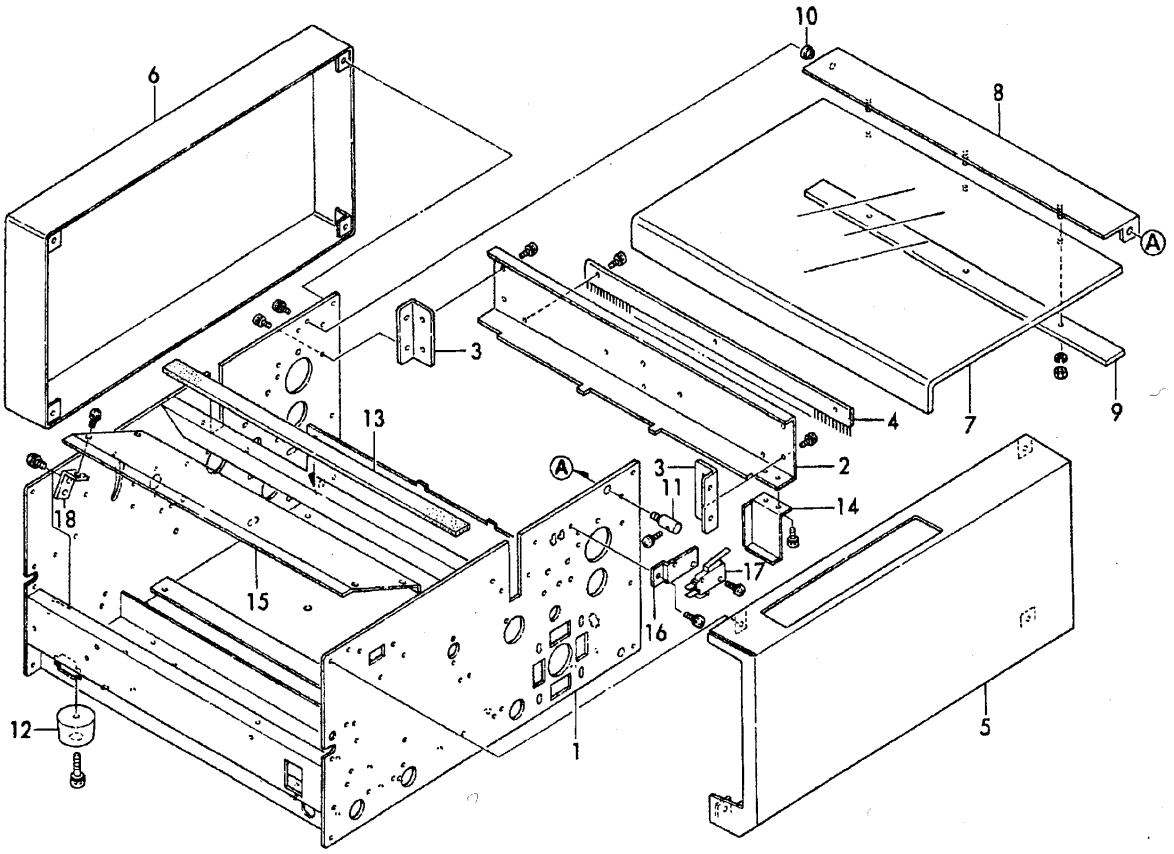
6. Exterior



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 – 50021	フレーム unit	Frame unit	1	
2	J1 – 50101	後板	Rear plate	1	
3	C3 – 50270	アングル	Angle	2	
4	D5 – 51220	防電バー	Brush	1	
5	J1 – 50170	カバー R	Cover R	1	
6	J1 – 50180	カバー L	Cover L	1	
7	J1 – 50200	安全カバー	Sefety cover	1	
8	J1 – 50210	モール	Stay	1	
9	J1 – 50220	当板	Supporting plate	1	
10	F2 – 22230	Z	Z collar	1	
11	F2 – 22240	軸	Shaft	1	
12	49 – 51180	ゴム足	Rubber leg	4	
13	J1 – 50270	ゴム板	Rubber plate	1	
14	J1 – 50330	ギヤカバー	Gear cover	1	
15	J1 – 50341	カバー	Cover	1	
16	J1 – 50351	スイッチアングル	Switch angle	1	
17	LA-013	マイクロスイッチ V – 112 – 1C24	Micro switch	1	
18	26 – 23731	アングル	Angle	4	

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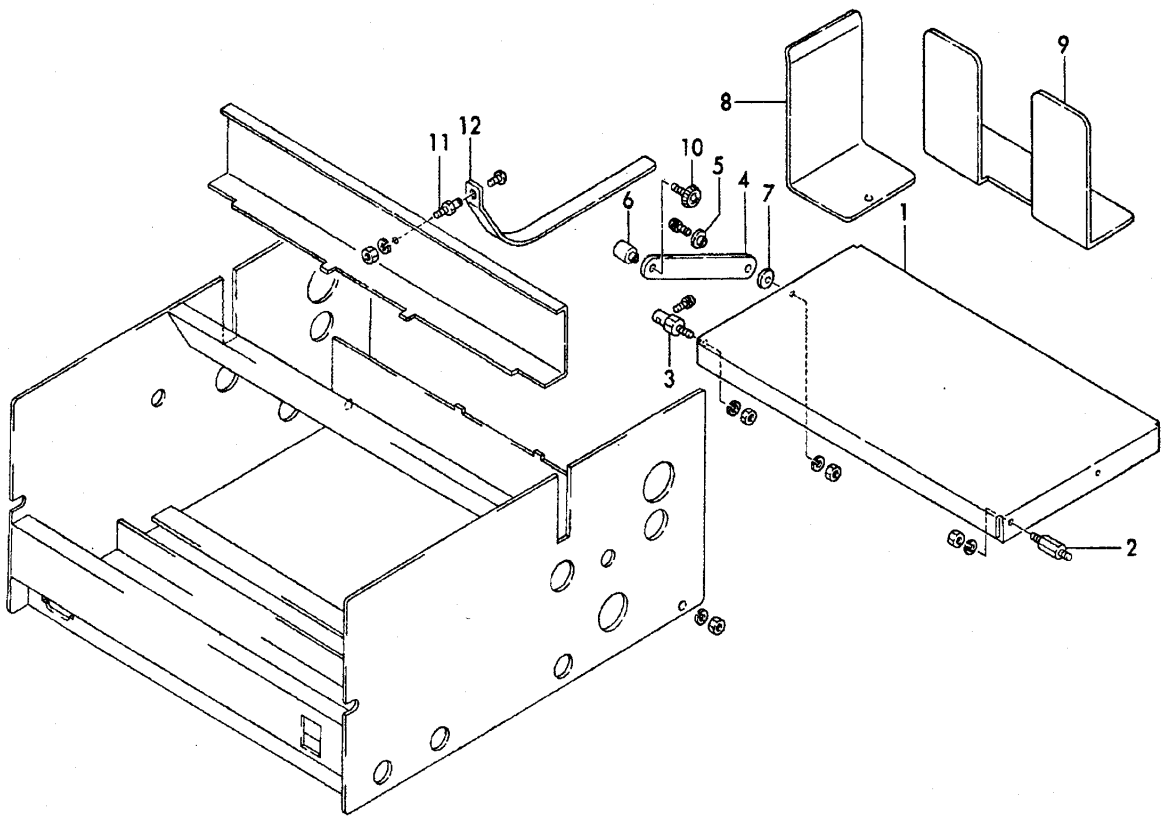
7. Paper Receiving Section



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 – 51030	紙受板	Stacker base	1	
2	C3 – 54120	ボス	Boss	1	
3	G6 – 51050	ネジ	Screw	1	
4	D5 – 74210	支持板	Supporting plate	2	
5	D5 – 52120	Z	Z collar	2	
6	D5 – 74220	ボス	Boss	2	
7	X4 – 12050	X	X collar	2	
8	G6 – 51130	ガイド板 unit	Stacker guide	2	
9	G6 – 51170	紙受ストッパー unit	Stacker stopper	1	
10	90 – 52391	ツマミネジ	Thumb screw	2	
11	D3 – 12750	ネジ	Screw	1	
12	H4 – 52210	板	Plate	1	

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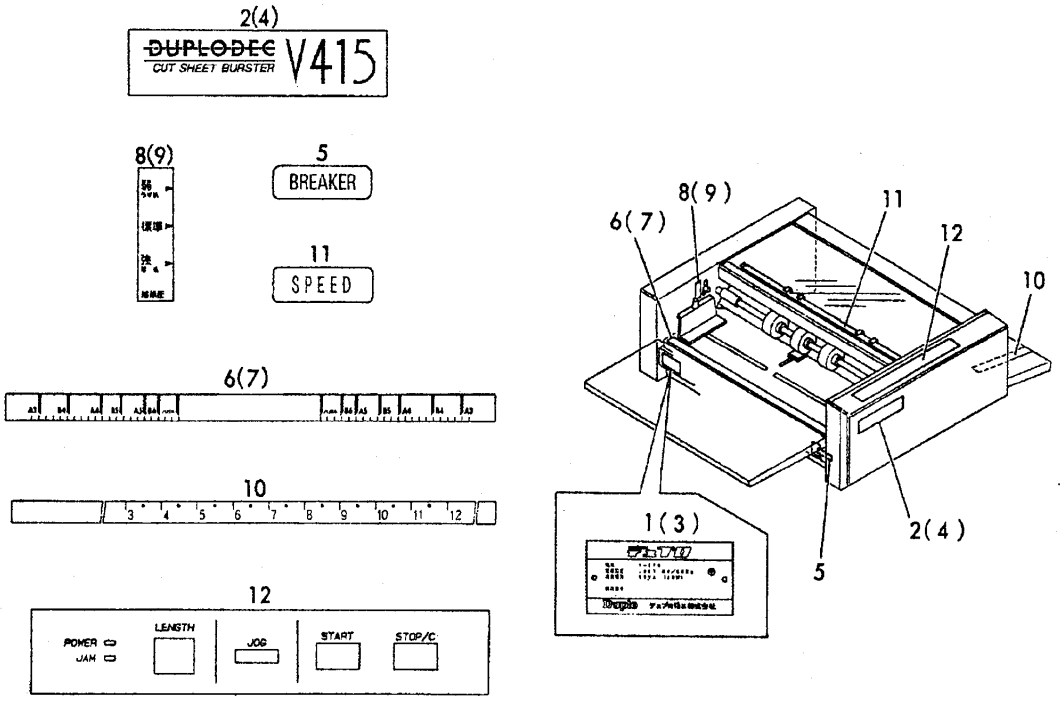
8. Labels



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 − 60020	主銘板	Label main	1	
2	J1 − 60030	飾り銘板	Label decoration	1	
3	J1 − 60050	主銘板	Label main	1	(USA)
4	J1 − 60060	飾り銘板	Label decoration	1	(USA)
5	019 − 5771	ブレーカ指示銘板	Label breaker	1	
6	C9 − 59171	給紙目盛板	Label feed scale	1	
7	E1 − 79070	給紙目盛板	Label feed scale	1	(USA)
8	G6 − 60130	給紙圧銘板	Label feed pressure	1	
9	E1 − 79070	給紙圧銘板	Label feed pressure	1	(USA)
10	F4 − 53220	目盛板	Label scale	1	
11	G4 − 51280	スピード銘板	Label speed	1	
12	J1 − 52080	操作パネル	Label control panel	1	

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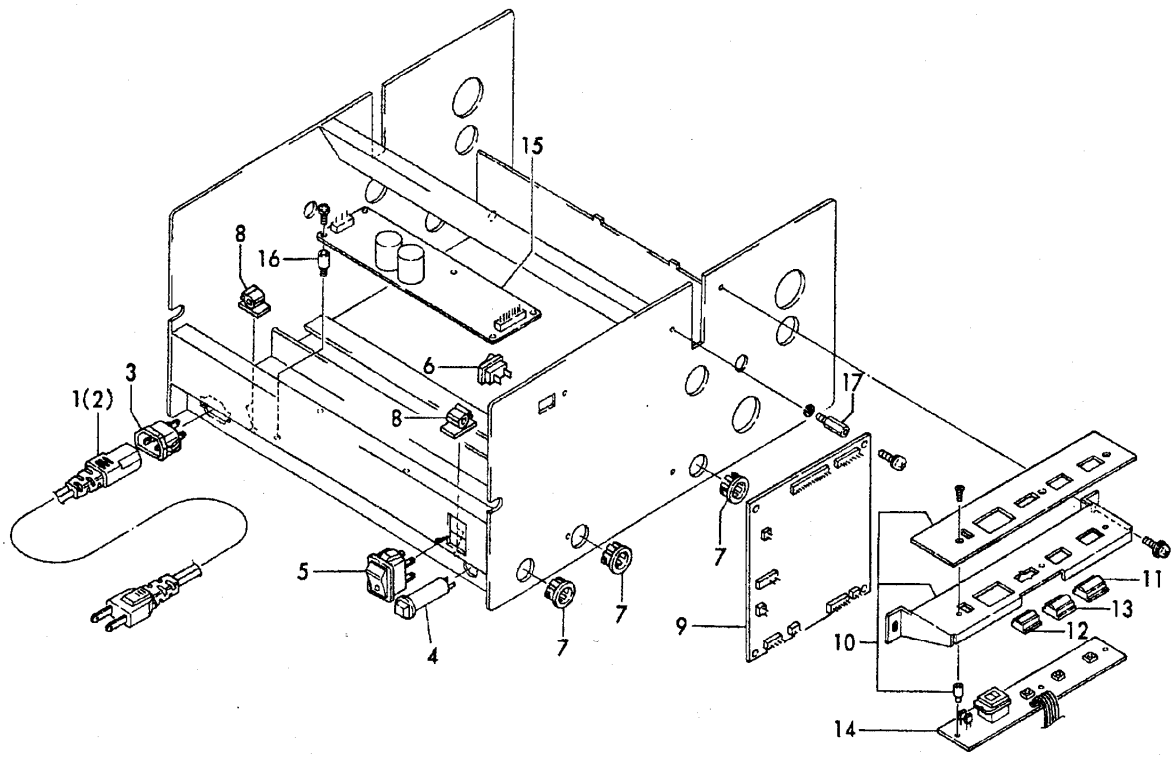
9. I Electric Section I



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	C6－89200	プラグ付電源コード	Power cord	1	
2	E1－81070	プラグ付電源コード	Power cord	1	(USA)
3	G4－80120	インレット	Inlet	1	
4		ブレーカー NRF110－1A	Breaker NRF－110－1A	1	
5	F2－80110	波形スナップスイッチ	Power switch	1	
6		波形スナップスイッチ VLA04	Power switch VLA04	1	
7		ブッシング OCB－750	Bush OCB－750	3	
8		CKSクランプ CKS－07－L	Clamp CKS－07－L	4	
9	J1－V3311	メイン基板ユニット	Main P.W.B. unit	1	
10	J1－52021	操作板 unit	Control plate unit	1	
11	E1－74371	キートップ	Key top	1	
12	E1－74381	キートップ	Key top	1	
13	G4－51100	キートップ	Key top	1	
14	J1－V3211	操作基板ユニット	Control P.W.B. unit	1	
15	J1－50052	スイッチング電源 VS100－12	Power supply	1	
16	J1－50370	スペーサ	Spacer	5	
17	J1－50380	スペーサ	Spacer	4	

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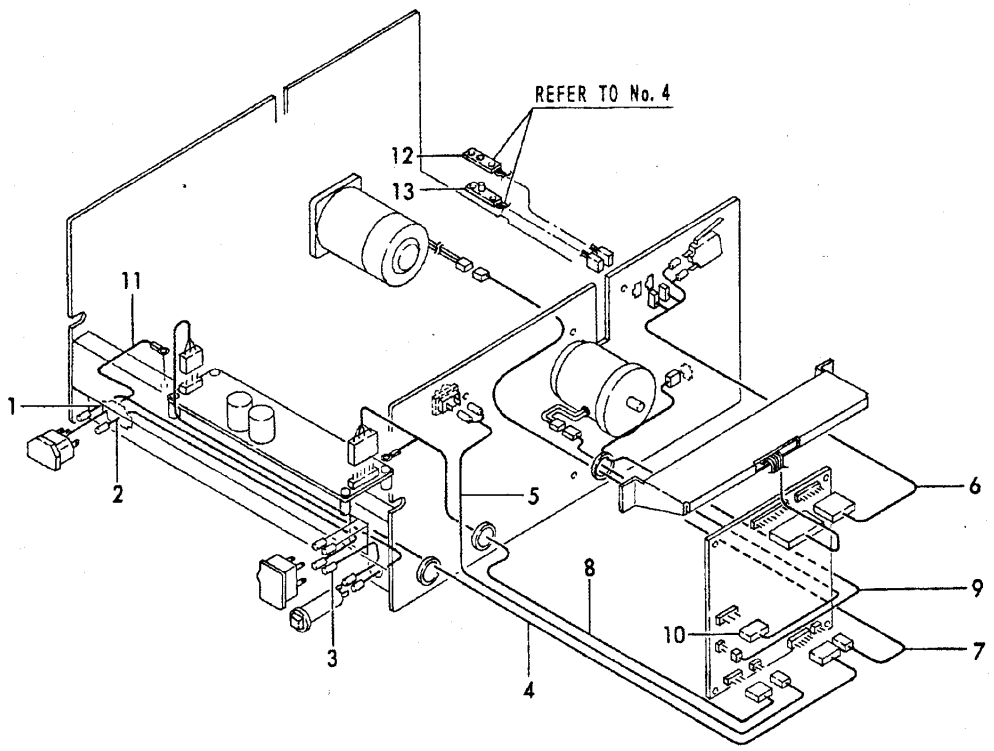
10. Ⅱ Electric Section Ⅱ



図番 INDEX	部品番号 PARTS No.	部品名称	DESCRIPTION	数量 Q'TY	備考 Remarks
1	J1 – W1011	束線ユニット 1	Bundled cable unit – 1	1	
2	J1 – W1021	束線ユニット 2	Bundled cable unit – 2	1	
3	J1 – W1031	束線ユニット 3	Bundled cable unit – 3	1	
4	J1 – W1041	束線ユニット 4	Bundled cable unit – 4	1	
5	J1 – W1061	束線ユニット 6	Bundled cable unit – 6	1	
6	J1 – W1071	束線ユニット 7	Bundled cable unit – 7	1	
7	J1 – W1080	束線ユニット 8	Bundled cable unit – 8	1	
8	J1 – W1091	束線ユニット 9	Bundled cable unit – 9	1	
9	J1 – W1100	束線ユニット 10	Bundled cable unit – 10	1	
10	J1 – W1111	束線ユニット 11	Bundled cable unit – 11	1	
11	G6 – 81091	束線 I unit	Bundled cable unit – I	1	
12	J1 – V3010	発光ユニット	Light emitting unit	1	
13	J1 – V3111	受光ユニット	Photo emitting unit	1	

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